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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/526,924	03/08/2005	Johannes Marra	NL 020878	7552	
24737	7590 05/19/2006		EXAMINER		
PHILIPS INTELLECTUAL PROPERTY & STANDARDS			REHM, A	REHM, ADAM C	
P.O. BOX 3001 BRIARCLIFF MANOR, NY 10510			ART UNIT	PAPER NUMBER	
DIGINOLII I	MILITOR, 111 10310		2875		
			DATE MAILED: 05/19/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant/o)				
	Application No.	Applicant(s)				
	10/526,924	MARRA ET AL.				
Office Action Summary	Examiner	Art Unit				
	Adam C. Rehm	2875				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DOWN - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period vor Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be timused and will expire SIX (6) MONTHS from a cause the application to become ABANDONE.	I. lely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 08 M	arch 2005.					
2a) ☐ This action is FINAL . 2b) ☑ This	This action is FINAL . 2b)⊠ This action is non-final.					
· · · · · · · · · · · · · · · · · · ·	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.				
Disposition of Claims						
4) ⊠ Claim(s) 1-15 is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 1-15 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/o	vn from consideration.					
Application Papers						
9) The specification is objected to by the Examine 10) The drawing(s) filed on <u>08 March 2005</u> is/are: Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex	a) \square accepted or b) \boxtimes objected to drawing(s) be held in abeyance. See ion is required if the drawing(s) is object.	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage				
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 3/49/65: 110006	4) Interview Summary Paper No(s)/Mail Do 5) Notice of Informal P	(PTO-413) ate Patent Application (PTO-152)				

DETAILED ACTION

Drawings

- 1. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the following must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.
- 1) A light-transmitting element with an optically roughened surface facing towards the light source per Claim 13
- 2) A light-transmitting element with an optically roughened surface facing towards the powder per Claim 14
 - 3) Two substantially parallel, substantially optically smooth surfaces per Claim 15
 - 4) The surface of the lighting fixture per Claim 15

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filling date of an application must be labeled in the top margin as either "Replacement Sheet" or "New

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Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2. Claim 15 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Claim 15 recites the limitations: (1) the surface of the light-transmitting element that faces towards the light source; (2) the surface of the lighting fixture facing toward the lamp; and (3) "the lamp" in Lines 1-4. There is insufficient antecedent basis for these limitations in the claim.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 1 and 7-13 are rejected under 35 U.S.C. 102(b) as being anticipated by MABE ET AL. (US 6,568,840), which discloses a lighting device comprising:
 - At least one light source (15);
 - A light reflector disposed beside the light source for reflecting light therefrom (10);

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- The light reflector comprising a synthetic, light-transmitting element bounding a space (3, lamp body; Claim 1);
- Diffusely reflective free-flowing, pigmented/colored powder present inside said space (101/121/122, Column 3, Line 66-Column 4, Line 8; Column 4, Lines 53-63);
- Wherein the space is bounded by a second light transmitting element (2);
- Wherein the space is bounded by a housing (13); and
- A roughened light-transmitting element with a roughened surface facing the light source (113, Fig. 4A; Column 4, Lines 49-52).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claim 2-5 are rejected under 35 U.S.C. 103(a) as being unpatentable over MABE ET AL. (US 6,568,840) and ONO (US 6,830,354). MABE substantially discloses the claimed invention including a diffusively reflective optical powder comprised of aluminum (101/121/122), but does not disclose such a powder comprised of aluminum oxide of a particular diameter or wt.
- 5. Regarding the slight change in material, it has been held to be within the general skill of a worker in the art to select a known material on the basis of its suitability for the

intended use. *In re Leshin*, 125 USPQ 416. Further, ONO teaches the use of aluminum oxide as a reflective material (Column 10, Lines 26-32).

- 6. Regarding the specific diameter and wt., a change in the size of an existing element is generally recognized as being within the level of ordinary skill in the art. *In re Rose*, 105 USPQ 237. Likewise, a change in form of any element of prior patent must result in more than useful natural phenomenon that man has accumulated through common knowledge. *Span-Deck Inc. v. Fab-Con Inc.*, 215 USPQ 835.
- 7. Thus, it would have been obvious to one of ordinary skill in the art at the time of invention to modify MABE and use the aluminum oxide as taught by ONO in order to provide a reflective surface. Additionally, it would have been obvious to exercise common engineering principles and experiment with the size of the powder in order to derive an optimum powder size in order to achieve optimal light reflective properties.
- 8. Claim 6 is rejected under 35 U.S.C. 103(a) as being unpatentable over MABE ET AL. (US 6,568,840). MABE substantially discloses the claimed invention including a space (13), but does not disclose the specific space thickness. However, a change in the size of an existing element is generally recognized as being within the level of ordinary skill in the art. *In re Rose*, 105 USPQ 237. Likewise, a change in form of any element of prior patent must result in more than useful natural phenomenon that man has accumulated through common knowledge. *Span-Deck Inc. v. Fab-Con Inc.*, 215 USPQ 835. Thus, it would have been obvious to one of ordinary skill in the art at the time of invention to modify MABE and utilize a space as claimed for the purpose of obtaining optimum light qualities.

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9. Claim 14 is rejected under 35 U.S.C. 103(a) as being unpatentable over MABE ET AL. (US 6,568,840), which substantially discloses the claimed invention including a light-transmitting element with an optically roughened surface (113), but does not disclose such a light transmitting element facing towards the powder being optically roughened. However, Applicant admits that the use of a roughened surface to manipulate light is known in the art (Page 1, Lines 22-25). It would have been obvious to one of ordinary skill in the art at the time of invention to modify MABE and use the optically roughened surface as taught by Applicant's admitted prior art in order to manipulate light in order to have a desired effect.

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- 10. Claim 15 is rejected under 35 U.S.C. 103(a) as being unpatentable over MABE ET AL. (US 6,568,840), which discloses a lighting device method for manufacture comprising:
 - At least one light source (15);
 - A lighting fixture (13);
 - A light reflector arranged beside the light source for diffuse reflection (10);
 - A light-transmitting element bounding a space having two parallel optically smooth surfaces (2);
 - Wherein a surface that faces towards the light source extends parallel to a surface of the lighting fixture facing the lamp (3; inner and outer surfaces); and
 - Diffusely reflective powder present inside the space (111).
- 11. While MABE substantially discloses the claimed invention, MABE does not disclose a specularly reflective surface. However, Applicant admits that such is known

in the art (Page 2, Line 5). It would have been obvious to one of ordinary skill in the art at the time of invention to modify MABE and use the specularly reflective surface as taught by Applicant's admitted prior art in order to provide desired reflection.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

- 12. MARRA ET AL. (US 2005/0237744) employs both specularly and diffusively reflective materials of aluminum oxide.
- 13. HOELEN ET AL. (US 2005/0180167) teaches use of a specularly or diffusively reflective material.
- 14. ZIMMERMAN ET AL. (US 2004/0233655) employs both a specularly and diffusively reflective material.
- 15. GUERRIERI (US 6,857,771) discloses a light stick with reflective powder.
- 16. ZOU ET AL. (US 6,550,942) discloses use of a specularly or diffusively reflector of aluminum oxide.
- 17. WILSON (US 6,299,328) discloses use of a specularly or diffusively reflector of aluminum oxide:

Correspondence

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Adam C. Rehm whose telephone number is 571.272.8589. The examiner can normally be reached on M-F 9-5:30 EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sandra O'Shea can be reached on 571.272.2378. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

ACR 5/4/2006

THOMAS M. SEMBER PRIMARY EXAMINER